

BROZ	. Pela	

Stables on the Szolnok County state farms.
Mezogazd techn 1 no.1:22-23 '61.

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Czechoslovakia

BROZ, F

Die Forschungsaufgaben auf dem Fachgebiet der Geodaesie und Kartographic (tschech.) S. 8-10

SO: Vermessurgs Technik, Nov 1955, Unclassified.

BROZ, F.

The Czechoslovak SRZ-42 forage harvester.

p. 289 (SBORNIK RADA MECHANISACE A ELEKTRIFIKACE ZEMEDELSTVI) Vol. 30, No. 5, Oct. 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No.3, March 1958

EROZ, F.

"The objectives and results of the ctivities of the Research Institute of Geodesy, Topography, and Cartography in Frague."

F. 17. Ustredni sprava glodesie a karte prafic, (Fraha, Ozechoslov, kia) Vol. 4, no. 2, Feb. 1958

SO: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5, May 1958

### BROZ, F.

SCIENCE

Periodicals: GEODETICKY A KARTCGRAFICKY OBZOR. Vol. 5, no. 1, Jan. 1959

BROZ, F. Perpetuation of errors in gravimetric nets. p. 10.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5, May 1959, Unclass.

BROZ F.

SCIENCE

Periodicals: GEODETICKY A KARTOGRAFICKY OBZOR. Vol. 5, no. 2, Feb. 1959

BROZ, F. Perpetuation of errors in gravimetric nets. p. 10

Monthly List of East European Accessions (FEAI) IC, Vol. 8, No. 5, May 1959, Unclass.

s/035/62/000/004/049/056 A001/101

AUTHOR:

Broz, F.

TITLE:

On the problem of adjusting gravimetric networks

PERIODICAL:

Referativnyy zhurnal, Astronomiya i Geodeziya. no. 4, 1962, 31, abstract 4G182 ("Sb. výzkumn. praci. Výzkumn. Ústav geodet., topograf. a kartograf.", 1959, v. 1, 11 - 39, Czech; Russian and German summaries)

Adjustment of an extensive gravimetric network by the least-square method is connected with a labor-donsuming solution of the system of many equations. Adjustment of such a network by the successive approximation method does not always lead to a single-valued solution and definite result. An exact solution calls for a large number of approximations. If initial approximate values were chosen unhappily, the number of approximations increases. In order to employ successfully the method of successive approximations, the author proposes to assume the results of preliminary adjustment of individual small parts of the network for initial approximate values, and considers as an example the approximation method for a typical network of a few triangles. Corrections to the

Card 1/2

On the problem of adjusting gravimetric networks

S/035/62/000/004/049/056 A001/101

sides of the central triangle are expressed by a linear function of misclosures of remaining triangles of the network part being adjusted and serve as a basis for subsequent approximations. In this case calculations lead to a convergent sequence of corrections and yield an exact solution. The theory of the method is presented in the matrix formalism and illustrated by numerical examples. Several computers can participate simultaneously in adjustment. If the network shape remains unchanged with new observations, the partial solution program also does not change. The method proposed is applied to solution of a system of 162 normal equations in adjustment of a first-order Czechoslovak gravimetric network (RZhAstr, 1960, no. 1, 969). The accuracy of a unitary gravimetric connection is estimated by the mean square error of ±0.13 mgal. It is noted that considerations of labor saving in adjustment calculation should be taken into account in designing the network. If observations are arranged in a certain way, a more advantageous form of normal equations can be obtained. In particular, in designing a network, it is advantageous to use such an observational program in which all connections can be assumed to be of equal accuracy. There are 6 references.

[Abstracter's note: Complete translation]

P. Shokin

Card 2/2

\$/035/62/000/004/048/056 A001/A101

AUTHOR:

Brož. F.

TITLE:

On the problem on accumulation of errors in gravimetric networks

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 4, 1962, 31, abstract 4G181 ("Sb. výzkumn. prací. Výzkumn. Ústav geodet., topograf. a kartograf.", 1961, v. 6, no. 3, 7 - 32, Czech; Russian

and German summaries)

In connection with solution of the problem of reasonable designing large gravimetric networks; the author considers the problem of error accumulation in networks adjusted by the least-square method (Abstract 40182). Using the formalism of matrix calculus the author presents the solution of a problem for n points of a gravimetric network schematically represented by a chain of triangles and a chain of squares in which gravity differences are measured for all the sides. He derives the weight of the function of the gravity balanced value at the terminal point of the chain. It turned out that construction of a network of 2n squares was more economical, by 25%, than that of 2n triangles. The loss in

Card 1/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110001-8"

On the problem on accumulation of...

S/035/62/000/004/048/056 A001/A101

accuracy in this case amounts to ~12% which, in the author's opinion, has no practical meaning. Having in consideration only economical aspect of the problem and neglecting the accuracyloss, the author proposes to construct chains and compact gravimetric networks out of squares rather than out of triangles. There are 5 references.

P. Shokin

[Abstracter's note: Complete translation]

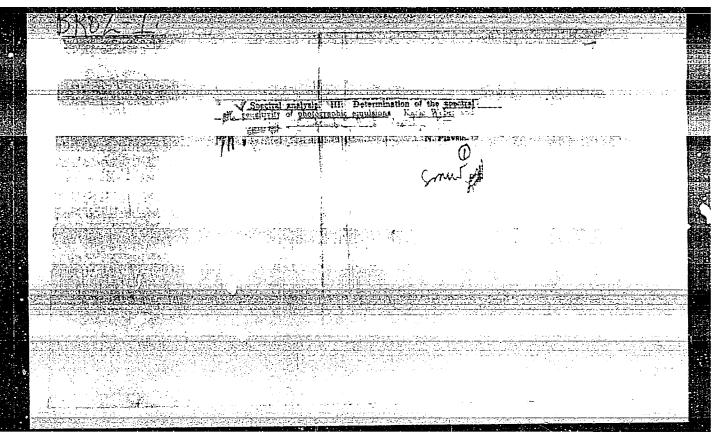
| Card 2/2

BROZ, I.

"Determination of the gramular grade of photographic layers", p. 29 (Arhiv Za Kemiju., Vol. 24, 1952, Zagreb)

So: Monthly List of English Accessions, Library of Congress, September 1953, Uncl.

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110001-8



## BROZ, I.

"A study of some factors having influence on the odsorption of Gelatin on the superficies of the crystal of silver halogenide" by J.Pouradier and J.Roman. Reviewed by I.Broz. Kem ind 9 no.12: F-91-F-94 D '60.

1. Urednik, "Fotokemijska industrija,"

BROZ, Ivo; WEBER, Karl

Use of the EFKE 25 Pan film in the professional and scientific work. Kem ind 12 no.8:591-596 '63.

1. "Fotokemika", Zagreb.

BROZ, I.

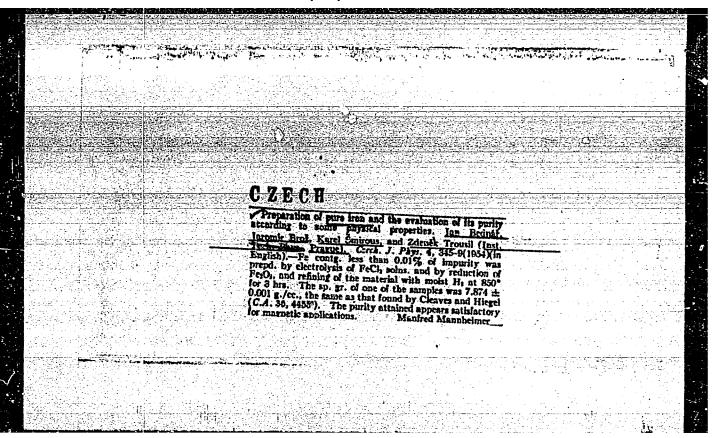
7

First International Congress on Reprography. Kem ind 12 no. 11: 857-858 N '63.

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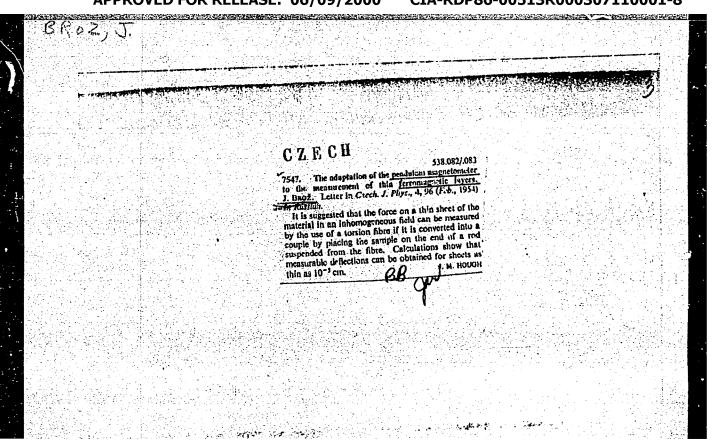
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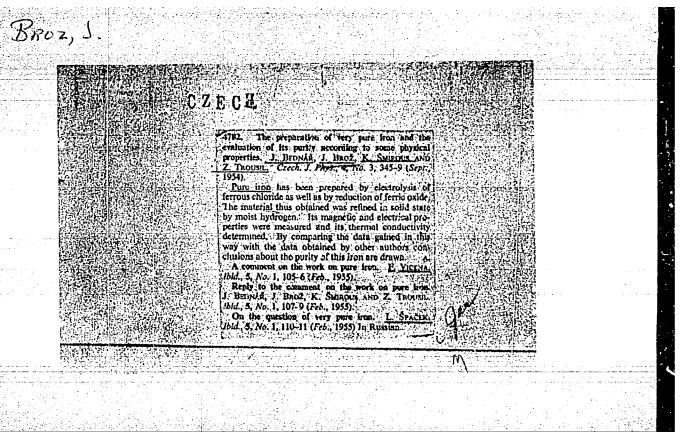


BROZ, J.

"Measurement of the Magnetic Properties of Ferromagnetic Monocrystals" P. 92 (CESKOSLOVENSKY CASOPIS PRO FYSIKU - Vol. 4, No. 1, Feb. 1954 - Praha, Czech.)

SO: Monthly List of East European Accessions. (EEAL), LC, Vol. 4, No. 4, April 1955, Uncl.





BROZ, J.

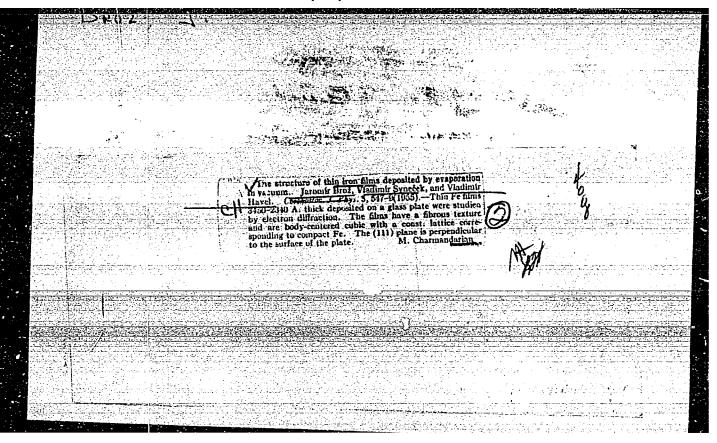
Broz, J., Sternberk, J. Torsion method of measuring magnetization curves of thin ferromagnetic films. p. 476. CESMOSLOVENSKY CASOPIS PRO FYSIKU. Praha. Vol. 4, no. 4, Sept. 1954.

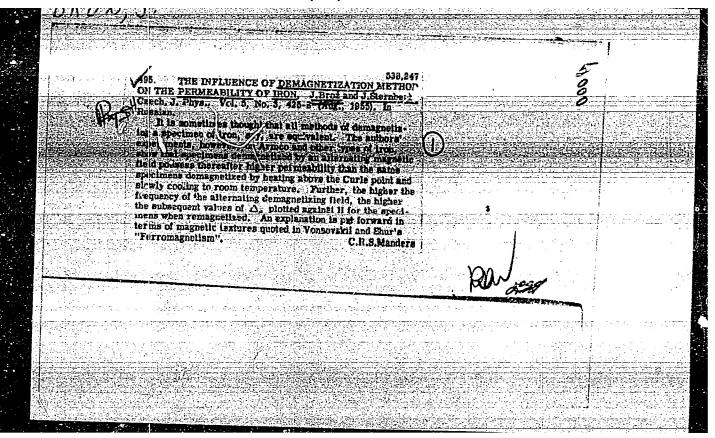
SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 11, Nov. 1955, Uncl.

BROZ, J.

Broz, J. A visit to Poland. p. 619. CHSECSLIVENSEY CASCRIS FRO FYDIKU. Praha. Vol. 4, no. 5, Oct. 1954:

SO: Monthly List of East European Accessions, (EMAL), LC, Vol. 4, No. 11, Nov. 1955, Uncl.





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BROZ, JAROMIR

Category : CZECHOSLOVAKTA/Solid State Fnysics - Structural Crystallcgraphy

E-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3715

: Broz, Jaramir; Synecek, Vladimir; Havel, Vladimir Author

: Structure of Thin Layers of Iron. Obtained by Evaporation in Vacuum Title

Orig Pub: Chekhosl. fiz. zh., 1955, 5, No 4, 547-548

Abstract : See Ref. Zh. Fiz., 1956, 28595

: 1/1 Card

: BROZ JAROMIR CZECHOSLOVAKIA/Electricity - Semiconductors

G-3

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 12192

Author

: Broz Jaromir

Inst

: Technical Physics Department, Czechoslovak Academy of

Sciences, Prague, Czechoslovakia.

Title

: Study of the Electric Conductivity of Manganese Ferrite.

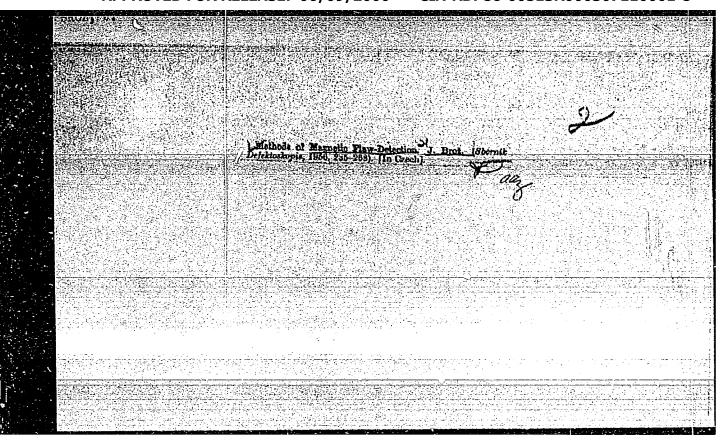
Orig Pub

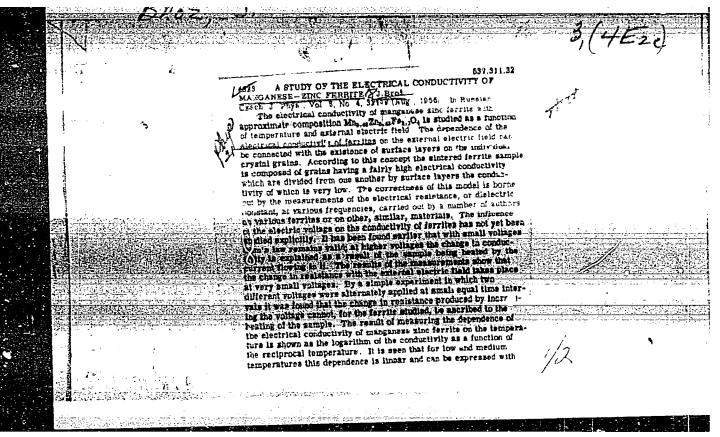
: Ceshosl. casop. fys., 1956, 6, No 3, 296-302

Abstract

: An investigation was made of the electric conductivity of manganese-zinc ferrite as a function of the temperature and of the external electric field. It is shown, that the change in the resistance with an external electric field begins at field values that are several times smaller than those which were previously indicated in the literature. It is established, that the change in the resistance, due to the increased voltage, cannot be explained by heating

Card 1/3





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BROZ J.

CZECHOSLOVAKIA / Magnetism. Ferromagnetism.

F-4

Abs Jour : Ref Zhur - Fizika, No 3, 1957, 6859

Author : Bednar, Jan; Broz, Jaromir; Smirous, Karel; Trousil,

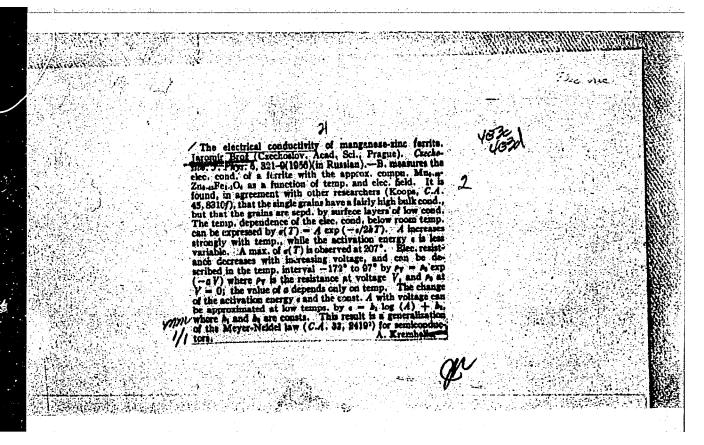
Zdenek

Title : Response to Spacek's Remark.

Orig Pub : Ceskosl, casop, fys., 1956, 6, No 2, 228 - 230

Abstract : See Abstract 6858

Card : 1/1



BROZ, J. and others.

Effect of the method of preparation on some magnetic properties of manganese zinc ferrite. p. 46. (Ceskoslovensky Casopis Pro Fysiku. Vestnik. Vol. 7, no. 1, 1957.)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

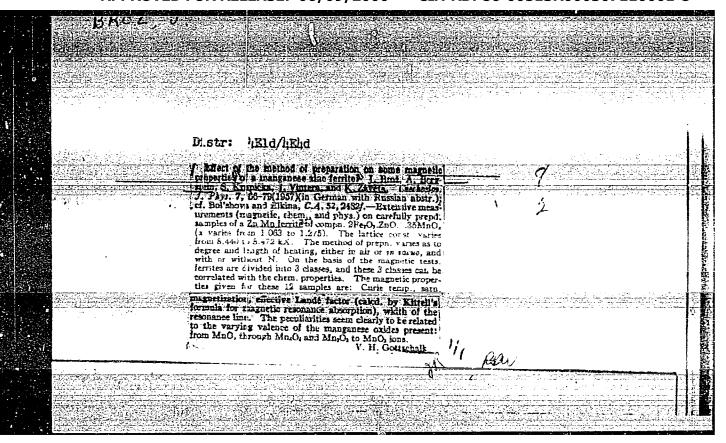
# BROZ, J.

Contribution to the study on thermal dependence of saturated magnetization in manganese zinc ferrities.

p. 217

(Ceskoslovenska Morfologie. Vol. 5, no. 1, 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7,no. 2, February 1958



CZECHOSLOWAKIA/Magnetism - Ferrites and Ferrimagnetism.

Abs Jour : Ref Zhur -Fizika, No 6, 1959, 13243

Author

: Broz, Jaromir; Zaveta, Korel Inst

: Concerning the Problem of the Study of the Temperature Title

Dependence of Saturation Magnetization of Manganese-

Zinc Ferrites.

Orig Pub : Ceskosl. casop. fys., 1957, 7, No 2, 217-219

Abstract : See Referat Zhur Fizika, 1958, No 1, 1174.

Card 1/1

CZECH/37-59-2-2/20

AUTHORS: Jaromír Brož, Svatopluk Krupička, Bohumil Zítka

TITLE: The Perminvar Effect and Magnetic After-effect in

Magnesium Manganese Ferrite

PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 2, pp 124-132 (+ 1 plate)

ABSTRACT: Some ferro-magnetic materials show a hysteresis curve with a characteristically narrow central part. The permeability of these materials in weak fields is practically independent of the field. These materials are called "Perminvars" (Ref 1). The theory of the perminvar effect has been studied by Kienlin (Ref 2). A stable perminvar effect can only be observed if the demagnetisation is carried out at a temperature sufficient for diffusion processes to occur rapidly and, thereafter, the material is cooked so that the stabilised state "freezes in". The diffusion processes leading to the stabilisation of the demagnetised state also lead to magnetic after-effects of the Richter type (Refs 4, 5). A connection between the two effects has been experimentally determined for a-iron (Refs 6, 7) and for some forrites (Refs 8,9,10). In the present work we have

CZECH/37-59-2-2/20

The Perminvar Effect and Magnetic After-effect in Magnesium Manganese Ferrite

investigated some of the conditions for the existence of the perminvar effect and its connections with relaxation effects. We have used a ferrite of composition Mg0.75Mn0.35Fe1.804. The theory of magnetic after-effects has been worked out by Néel for a-iron containing some interstitials (mainly carbon). Although in the case of ferrites, no exact model of the diffusion processes is known, the general results of Néel's theory can, nevertheless, be used. Let us assume (Ref 7) that the behaviour of the sample in a magnetic field can be described on the basis of the motion of a single effective Bloch-wall. This is equivalent to assuming that each wall moves under the action of a mean magnetic field depending on the mean magnetic induction of the sample "B". The mean effective field of the magnetic after-effect can then be written as:

 $h(t, B) = h_{\infty}(B) G(t)$  (8)

Card 2/4 If we determine the value of the effective field h(t) from the perminvar effect according to Eq (9), for two stabilising times  $t_0$ , t, we obtain Eq (12):

CZECH/37-59-2-2/20 The Perminvar Effect and Magnetic After-effect in Magnesium Manganese Ferrite

 $h(t) - h(t_0) = \frac{h_{\infty}(B)}{1/\chi_{\infty} - 1/\chi_{0}} (1/\chi(t) - 1/\chi_{0}, t_0)).$ (12)

The measurements were taken at a temperature of -195 °C. The time-dependence of the permeability was measured with a field intensity of 10 mOe and at a frequency of 200 kc/s. The hysteresis curve was determined by normal oscillographic methods with a magnetic field of amplitude  $H_{m}$  and frequency 50 c/s. Our experiments have shown that the perminvar effect is observed if the sample is demagnetised after cooling to liquid nitrogen temperature and after a certain time, necessary for the stabilisation of the demagnetised state, the magnetising field is applied. The observed effect was not stable. The instability was independent of the speed of cooling the sample. If, on the other hand, the sample was demagnetised at room temperature and afterwards cooled to liquid nitrogen temperature, a weak perminvar effect occurred if the cooling was slow, while it was not observed if the Card 3/4 sample was cooled rapidly. The optimum field for observing the effect was 0.60 Oe and this was led for

The Perminvar Effect and Magnetic After-effect in Magnesium Manganese Ferrite

subsequent measurements. The change in the perminvar effect with the stabilising time t is shown in Fig 4B (plate, p 222a). Fig 4C shows the dependence of the effect on the duration v of the magnetising field. From these measurements, the magnitudes  $H_p$  and h (see Eq (9) and Fig 3) were determined. h is shown in Fig 5 as a function of t and V. This figure als shows the decrease of the permeability after demagnetisa-Card 4/4 tion. All these curves show similar characteristics. There are 7 figures and 14 references, of which 6 are English, 1 Czech, 4 German and 3 French.

ASSOCIATION: Ústav technické fysiky ČSAV, Praha (Institute Tech. Phys., Ac. Sc., Prague)

SUBMITTED: August 7, 1958

CZECH/37-59-4-14/16

Jaromír Brož, and Jiří Šternberk

TITLE: Letter to the Editor: On the Temperature Dependence of the Coefficients of Rectangularity of Manganese-Magnesium

Ferrites 1

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PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 4, pp 445-446

ABSTRACT: The coefficient of rectangularity is defined either by the relative remanence  $k = B_T/B_{max}$  or by the ratio  $R_S$ of the induction in half the negative field to the induction in the maximum field. Wijn and co-workers (Ref 1) have studied the dependence of the coefficient of rectangularity on temperature within a small range. Our aim was to study this dependence over a larger range. We have chosen three ferrites whose chemical structure is given in the figure caption. The maximum field used was 35 Oe. The results of our measurements of Rs max and k are shown in the figure. It is obvious that the temperature dependence of the two coefficients of Card rectangularity differs considerably. The coefficient k 1/2 slowly and monotonously rises with decreasing temperature in all samples. The coefficient  $R_{S\ max}$  basically

CZECH/37-59-4-14/16

Letter to the Editor: On the Temperature Dependence of the Coefficients of Rectangularity of Manganese-Magnesium Ferrites

decreases with temperature, but shows definite minima in two of the three samples. We have attempted to explain these curves from the magnetic crystalline anisotropy. The anomalies in the temperature dependence of  $R_{S}$  max cannot be explained from the behaviour of the other basic parameters of the magnetisation curve. It will, therefore, be necessary to make a more detailed study of the hysteresis curve in the second quadrant (Ref 2).

Card 2/2

There are 1 figure and 2 German references.

ASSOCIATION: Ústav technické fysiky CSAV, Praha (Institute of Tech, Physics, Academy of Science, Prague)

SUBMITTED: February 19, 1959

BROZ, J.: DRUPICKA, S.: ZITKA, B.

Perminvar effect andmagnetic aftereffect in magnesium namganese ferrite. p. 124.

Praha, Czechoslovakia. Vol. 9, no. 2, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 9, no. 2, Feb. 1960.

Uncl.

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Z/037/60/000/02/003/018

AUTHORS:

Broz, Jaromír and Kratochvílová, Eva

TITLE:

Measurement of Magnetization with the Aid of a Physical

Pendulum 3

PERIODICAL:

Československý časopis pro fysiku, 1960, Nr 2,

pp 102 - 106

ABSTRACT:

The method (a modification of that described by Rathenau and Snoek, Ref 1) is suitable for measurements up to 600 °C. The equations of motion of a pendulum with a ferromagnetic sample moving in an inhomogeneous magnetic field is given by Eq (1), where M is the mass of the sample-holder, etc., J the moment of inertia, F the product of the field gradient and the sample's magnetic moment, s the distance of the centre of gravity from the axis, b the distance of the sample from the axis and m the mass of the sample. If  $x = l \phi$ , m << M and dH/dx = cx, it follows that:

 $\frac{\text{Mgs}}{1-\frac{1}{2}} \left[ \frac{t}{0} \right]^2$ 

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(4) W

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 $$\rm Z/037/60/000/02/003/018$$  Measurement of Magnetization with the Aid of a Physical Pendulum

where to is the pendulum's period in the absence of a magnetic field, to the period in the presence of a magnetic field, I the sample's magnetization intensity and vothe volume of the sample. The main part of the equipment (Figure 1) is the Y-shaped pendulum made from thin glass tubes. The motion of the pendulum is restricted to a plane perpendicular to the direction of the magnetic field. The position of the pendulum's axis can be adjusted so that the sample intersects the can oscillate in a small electric furnace located between the pole pieces.

The magnetic field is produced by an electromagnet with hemispherical pole pieces (3.5 cm radius) whose separation is adjustable; H was measured by a ballistic method and was found to vary as Eq (5); here H is a constant,

a and b depend on the separation of the pole pieces and the magnetizing current. Figure 2 also shows dH/dx.

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Measurement of Magnetization with the Ald of a Physical Pendulum

Because the amplitude of the oscillation was less than 0.2 cm, Eq (3) applied with c = -2a = -4450 OWith 2.12 cm between the pole pieces, M = 46.03 g, s = 15.95 cm, l = 61.3 cm, one obtains (Eq 4):

 $k = \frac{1}{\text{vol}^2} = 0.0431 \text{ abs. un. cm}^3$ . By comparing

measurements of the magnetization of various saturated ferrites at room temperature with measurements obtained by the ballistic method, the validity of Eq (4) was confirmed (see Figure 3 comparing  $I_s$  (pend) with  $I_s$  (bal).)

The temperature dependence has been measured of the saturated magnetization of various ferrites. Figure 4 shows this dependence for Mn<sub>1.15</sub>Fe<sub>1.85</sub>O<sub>4</sub>. The points marked by circles were obtained by the ballistic method, while those marked by crosses by the pendulum method. room temperature, the values coincide and both curves join

Card3/4

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z/037/60/000/02/003/018

Measurement of Magnetization with the E024/E320 Physical Pendulum

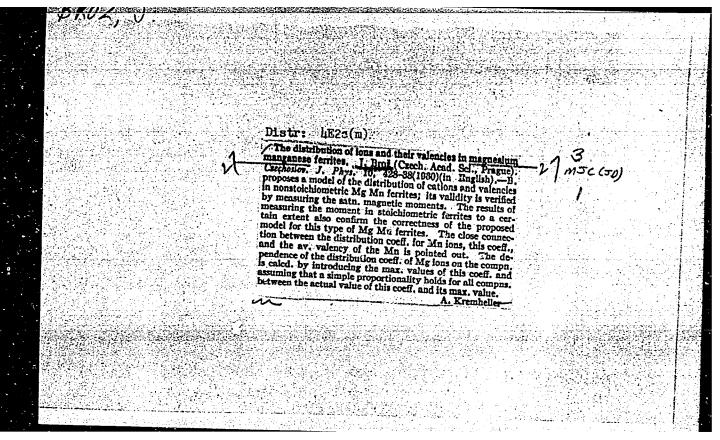
The samples may be quite small ( v approx 5 x  $10^{-5}$  to  $5 \times 10^{-3} \text{ cm}^3$ ).

The accuracy of the method depends on the accuracy with which t is determined. In the authors' case, this was done electronically with an accuracy of 0.01 sec. One may expect to determine the magnetization intensity with an accuracy of 1%. There are 4 figures and 2 references, of which 1 is English and 1 Czech.

ASSOCIATION: Ústav technické fysiky ČSAV, Praha (Institute of Technical Physics, Prague)

SUBMITTED: August 17, 1959

Card 4/4



S/282/63/000/002/001/005 A059/A126

AUTHOR:

Brož, Jaro<u>slav</u>

TITLE:

A centrifuge for the separation of suspensions

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, 47. Khimicheskoye i kholodil'noye mashinostroyeniye, no. 2, 1963, 18, abstract 2.47.104 P (Czech. pat., cl. 82b, 3/20, no. 101121, September 15, 1961)

TEXT: The centrifuge (C) suggested has two plate-like parts, A and B (see Figure). Part B is rotated by an electric motor through a joint and the hollow shaft of C. This part can be displaced with the aid of the device E (load, spring) in the axial direction, and is pressed to part A. C is connected with the container L through the pipe K, through which the suspension is fed to the space enclosed by parts A and B. The required level of the suspension is maintained with a ball valve. By the action of the centrifugal force, the solid particles accumulate between the plate-like parts A and B. Purified water is supplied through the hollow shaft of C and the opening H to the container G, from where it is taken off. At a predetermined thickening of the deposit, part C

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A centrifuge for the separation of suspensions

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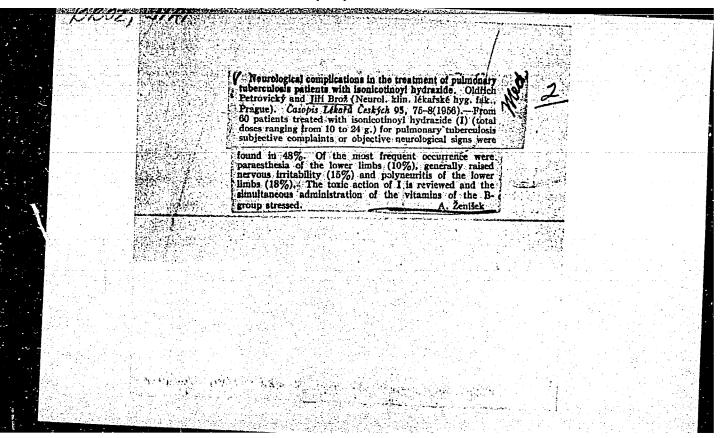
is raised with the aid of equipment D which receives a pulse from the amount of the suspension which had passed the pipe K. The internal space is closed and part B is raised. The deposit is thrown out through the opening forming between parts A and B. After removal of the deposit, part C is lowered, and the cycle repeated. There is 1 figure.

[Abstracter's note: Complete translation]

Figure.

Card 2/2

I. Gvozdev



BROZ, J.

Cooling technics in medicine. Cesk. fysiol. 7 no.4:334-335 July 58.

1. Vyskumny ustav stroju chladirenskych a potravinarskych, Praha. (REFRIGERATION, in med. (Cz))

CZECHOSLOVAKIA / Pharmacology and Toxicology. Tranquilizers.

V-2

Abs Jour : Ref Zhur - Biol., No 16, 1958, No 75715

Author

: Broz, Jiri

Inst

: Not given

Title

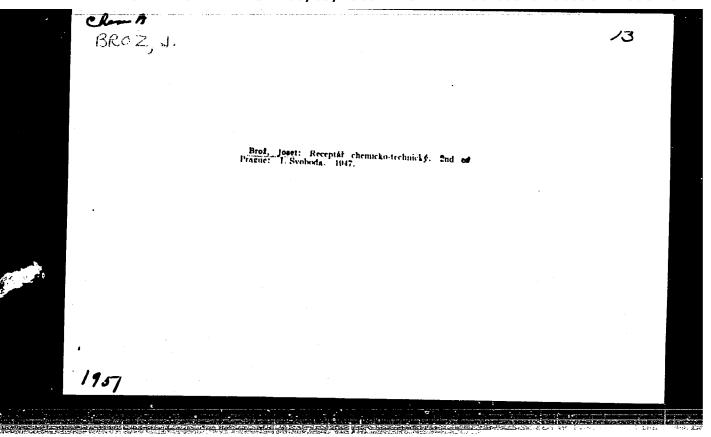
: Liver Complications During Treatment with Chlorpromazine.

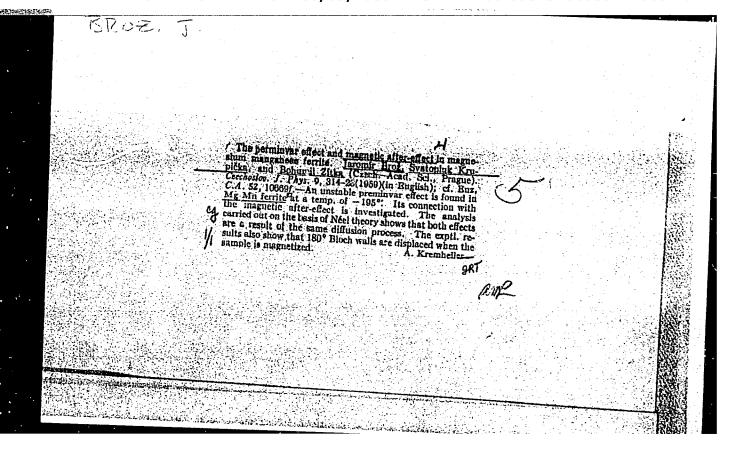
Orig Pub : Prakt. lekar, 1958, 38, N. 4, 170-171

Abstract : No abstract given.

Card 1/1

6





CZECHOSLOVAKIA

BROZ, Karel, Engr [affiliation not given].

"Summer Weather Conditions in Prague"

Prague, Zdravotni Technika a Vzduchotechnika, Vol 6, No 5, 1963, pp 208-212.

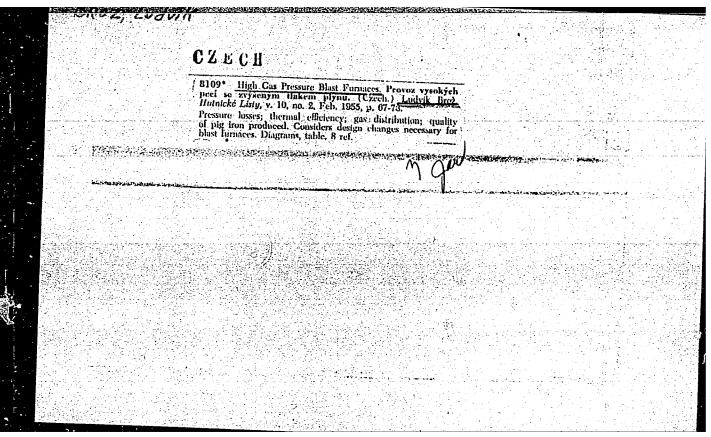
Abstract [Author's German summary, modified]: Presented is an analysis of weather observations made in Prague during the past ten years. The author evaluates the frequency of extreme summer temperatures, enthalpies, and vapor pressures in the atmosphere, and uses the result to classify the air-coditioning equipment into three groups with extreme parameters for calculation purposes.

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NEUZIL, L; BROZ, L.

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Budapest, Magyar Allatorvosok Lapja, Vol 21, No 3, Mar 66, pages 120-122.

Abstract: [Authors' English summary modified] A previously unknown disease of the leg is described which occurred in young pointers during the past years, in the CSSR. The disease is characterized by pathological changes in the skin and bones of the affected legs. The most important changes were detected, by histological examinations, in the acral parts of the bones and in the central nervous system. Analysis of the pedigree of the afflicted dogs revealed the hereditary character of the disease. The name hereditary neurotropic osteopathy is proposed by the authors. 6 Eastern European, 2 Western references.

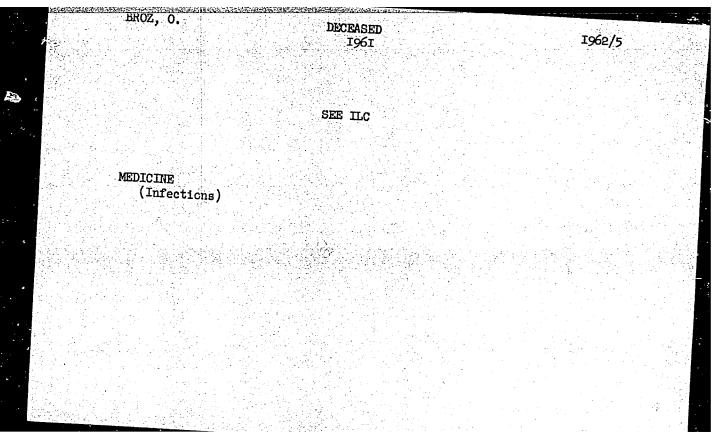
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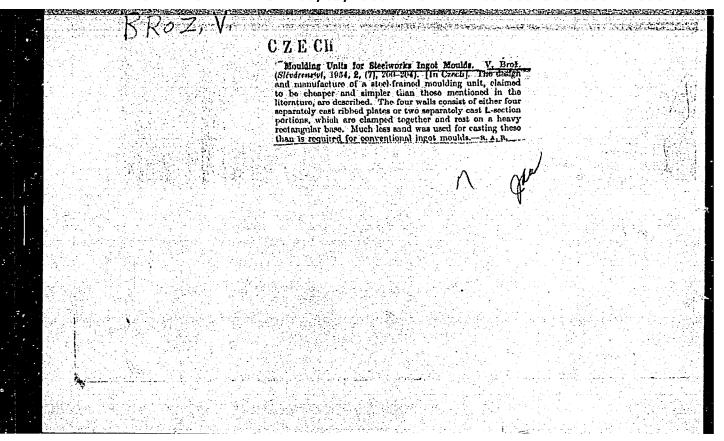
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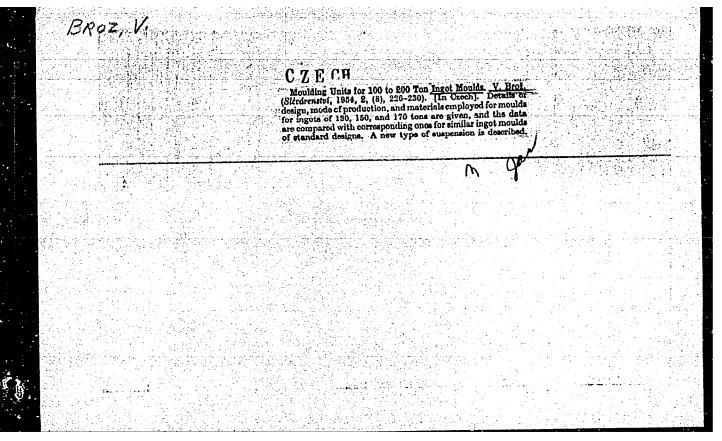
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Broz daygorcountry 1. YUGOSLAVIA : Chemical Technology. Pharmaceuticals. Vitamins. Category Antibiotics Abs. Jour : Ref Zhur-Khimiy No 14, 1959, No 50748 Author : Kranjcevic, M.; Broz-Kajganovic, V. Institute Title : Quantitative Determination of Codeine and Pyramidon After Fractional Distillation with \* Orig Pub. : Croat. chem. acta, 1958, 30, No 1, 47-52 : The method of quantitative determination of Abstract codeine (I) and of pyramidon (II) is based on their reaction with the tetraphenylborate--preparation-"calignost" and on the reaction of the obtained complex with HgCl2 in which splitting of HCl (acid) takes place: RNH<sub>2</sub>· HC1 + Na(BPh<sub>4</sub>)  $\longrightarrow$  RNH<sub>2</sub>(BPh<sub>4</sub>) + NaC1; RNH<sub>2</sub>H(BPh<sub>4</sub>) + 4HgCl<sub>2</sub>+ H<sub>2</sub>O  $\longrightarrow$  RNH<sub>2</sub>HC1+4PhHgCl+ "Calignost" 1/3 Card: H-96

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"Lucerne for pasture and seed." p. 13 (Plon, Vol 4 No 4 Apr 53 Warszawa)

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BROZEK. G.; Department of Physiology. Czechoslovak Academy of Sciences (Fysiologicky ustav CSAV), Prague.

"Cortical Cell Membrane Potential Changes During Spreading Depression."

Prague, Ceskoslovenska Fysiologie, Vol 14, No 5, Oct 1965; p 340-341.

Abstract: Micro-electrode determination of the changes in potential in the membrane of the cortical cells indicate that the process of spreading depression is accompanied by gradual depolarization of cortical elements. Graph. Paper presented at the 15th Physiology Days, Olomouc, 26 May 65.

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- 49 -

EWT(m)/EWP(t)/ETI LJP(c) L 34841-66 SOURCE CODE: CZ/0034/66/000/007/0512/0512 ACC NRI AP6020949 INVENTOR: Brozek, V. (Engineer); Prosek, F. (Engineer) ORG: none TITLE: High-purity aluminum production. CZ Pat. No. PV 3244-65 SOURCE: Hutnicke listy, no. 7, 1966, 512 TOPIC TAGS: aluminum, aluminum oxide, aluminum powder, carbon powder, high purityaluminum, aluminum production, HIGH PURITY METAL ABSTRACT: This Author Certificate introduces a method of producing high-purity aluminum (up to 99.9999%) with crystals up to 2 mm in size. Aluminum-oxide and carbon powders are mixed in the stoichiometric ratio of 1:3, heated at 2200-2500C for 5-15 min in a graphite crucible, and compressed with a plunger at a pressure of 2-10 at. Wetting the cooled product with distilled water causes precipitation of aluminum crystals due to hydrolitic decomposition of aluminum carbide. The initial aluminum oxide and carbon should not contain more than 0.2% impurities. The powder particles should be not larger than 0.5 mm in size. [WW] SUB CODE: 11/ SUBM DATE: 19May65/ ATD PRESS:503/

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POLAND

BOGDANIKOWA, Beata, SAGANEK, Barbara, and BROZD, Jadwiga; First Clinic of Internal Diseases (I Klinika Chorob Wewnetrznych), AM [Akademia Medyczna, Medical Academy] in Bialystok (Director: Docent, Dr. Beata BOGDANIKOWA)

"Effect of Treatment with Penicillin on Paraproteinemia."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 21, 20 May 63, pp 757-759

Abstract: [Authors' English summary] Authors administered orystalline penicillin G to a patient with beta2 myeloma and studied blood protein fractions before, immediately after, and four weeks after treatment. Penicillin G, or rather the penicilamine formed, caused marked decrease of the pathologic fraction. Administration had to be stopped because of patient's complaints of pains in the bones. Incubation of the patient's blood with penicillin in vitro did not cause any changes in the pathologic fraction. There are eight (8) references, all Western.

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AUTHORS:

Pilarczyk, Józef, Docent, Engineer, and Brózda, Jerzy,

Master of Engineering

TITLE:

مريد المغ

The influence of arc linear heat capacity on hardening

of steels of various carbon content within the sphere

of heat action

PERIODICAL:

Przegląd spawalnictwa, no. 8, 1961, 201-204

TEXT: In this report the authors discuss the results of their investigations for ascertaining how arc linear heat capacity influences the mechanical properties of welded steel. This research was undertaken because of lack of "CTP" graphs applicable to steel made in Poland from which the structure and hardness of steels affected by heat can be estimated with sufficient accuracy. [Abstracter's note: The meaning of the "CTP" abbreviation is not revealed]. Mechanical properties of welds depend on the microstructure of metal exposed to heat during the process of welding, chemical composition of welded steel and the speed with which the metal cools down after welding.

Card 1/4